# **World Resources Company**

**RECYCLABLE MATERIAL PROFILE** 

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan C	opper Wo	orks				Comp	oany I.D. #: 2	2149-001-03		
A. Generator Information										
1. Address: 3200 Sixth Avenue		Material EPA Waste Code: D007								
Seattle WA		004	0.4	4. Generator's EPA I.D. Number: WAD980738546						
2. Contact: Gerald Thompson		981:	<u> </u>	5. Generator's State I.D. Number:						
Title: Environmental Ass		o, Generators	State I.D. IYul	IIDGI						
B. Recyclable Material Characteristics										
1. Color(s): Black		re (similar to)	7 /	Appearance	9 Free Lie	nuide /FF	PA SW 846, Met	hod 9095)		
ii doioi(d). <u>Black</u>	l	•	1			• •	·	,		
	Wet Clay		· ·	Homogenous	₩ Not P	resent	Pre	sent		
2. Odor (none,mild,strong)	Dry Clay			Bilayered			11. Rea	ctivity		
None	Sand					resent	Not.	Reactive		
Description of Odor:	Powder		ļ <u>,</u>					'		
	Other			Multilayered		Present Reactive				
3. Moisture (wet,damp,dry)	8. Organic Vapors			Present	12. Radionuclides (ASTM D5928-96)					
Wet Solidor 82.7	Not Present (< 1ppm) If pres		oresent, identi	fy compounds and on a wet basis.	✓ Not D	etected	Dete	ected		
Percent Solids: 82.7	<del>-</del>		iount in ppini	on a wet basis.	13. Cyanide	Gas HC	N			
<b>4. pH</b> (EPA SW 846, (40 CFR § 261.21)	✓ Pass				Not D	etected				
method 9040/9045)   PASS					Detec					
pH: 8.60@21.8°C FAIL	Fail	<u> </u>	v:			ieu		_ ppm		
C. Analytical Data		(Content or	n a dry weight	basis in ppm or %)	·····	· · · · · · · · · · · · · · · · · · ·				
Constituent *		Content	Qualifier		tituent *		Content	Qualifier		
1 Aluminum 1	Al	39535.1 ppm		19. Magnes		Mg _	1181.9 ppm	· · · · · · · · · · · · · · · · · · ·		
2. Antimony 1,†	Sb	22.8 ppm		20. Mangan		Mn _	7706.5 ppm	· · · · · · · · · · · · · · · · · · ·		
3. Arsenic <sup>1,†</sup> 4. Barium <sup>1,†</sup>	As	56.3 ppm		21. Mercur	-	Hg _	< 6.6 ppm			
4. Barium <sup>1,1</sup> 5. Beryllium <sup>1,†</sup>	Ba Be	< 20.0 ppm _ < 20.0 ppm		22. Nickel 23. Seleni		Ni _	78396.2 ppm < 100.0 ppm			
6. Bismuth 1	Bi	100.5 ppm		23. Seleni 24. Silver		Ag	< 10.0 ppm V	13		
7. Cadmium 1,†	Cd	< 40.0 ppm M	<u></u> ИЗ	25. Thalli		rg _	< 40.0 ppm //			
8. Calcium 1	Ca	340.2 ppm N		26. Tin 1,†		Sn _	< 200.0 ppm M	13. M6		
9. Chloride 4	Cl-	0.14 %	***************************************	27. Zinc 1.1		Zn	1501.6 ppm			
10. Chromium, Hexavale	nt <sup>2</sup> Cr +6	90.1 ppm								
11. Chromium, Total <sup>1,†</sup>	Cr	105393.0 ppm		******		<i>f</i>				
12. Cobalt 1	Co	1328.6 ppm			* Analytical Procedure References					
13. Copper 1,†	Cu	47133.8 ppm		1	1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)					
14. Cyanide, Amenable <sup>3,†</sup> CN <sup>-</sup> <u>not analyzed</u>				2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)						
15. Cyanide, Total <sup>3,†</sup>	CN	< 12.1 ppm Z	2, Z3	3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)						
16. Fluoride 4	F	0.01 %	***************************************		4. HNO <sub>3</sub> or H <sub>2</sub> O <sub>2</sub> / EPA Method SW846 9056 (Digestion / Analysis)					
17. Iron <sup>1</sup> 18. Lead <sup>1,†</sup>	Fe Pb	562239.0 ppm < 40.0 ppm		† Licensed Cons	tituent					
וס. שבמע יוו	, FD	~ +0.0 ppm	<del> </del>							
D. Certification										
I hereby certify that all information submifted in this profile is complete and accurate to the best of my knowledge and belief.										
Signed: Date:										
Title: Laboratory Manager										

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### **World Resources Company**

QA/QC DATA

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan Copper Works Company I.D. #: 22149-001-03

QA/QC Criteria: All analyses met method criteria unless otherwise noted.

#### **Explanation of Data Qualifiers:**

M3 The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level.

The method control sample recovery was acceptable.

The low distilled standard did not meet method acceptance limits, the high distilled standard was acceptable.

The duplicate sample did not meet method acceptance limits due to the lack of sample homogeneity.

M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000.

# **World Resources Company**

#### **SAMPLE COLLECTION & ANALYSIS COMPLETION DATES**

Form: FM-M01 **EXHIBIT A** 

Generator Name: Alaskan Copper Works Company I.D. #: 22149-001-03

	Constituent		Sample Date	Completion Date	Sample Technician
1.	Aluminum	Al	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
2.	Antimony	Sb	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
3.	Arsenic	As	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
4.	Barium	Ba	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
5.	Beryllium	Ве	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
6.	Bismuth	Вi	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
7.	Cadmium	Cd	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
8.	Calcium	Ca	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
9.	Chloride	Cl	01/22/2007 14:10	01/26/2007 12:00	KEVIN MCALISTER
10.	Chromium, Hexavalent	Cr +6	01/22/2007 14:10	02/09/2007 15:00	KEVIN MCALISTER
11.	Chromium, Total	Cr	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
12.	Cobalt	Co	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
13.	Copper	Cu	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
14.	Cyanide, Amenable	CN.			
15.	Cyanide, Total	CN-	01/22/2007 14:10	02/05/2007 12:00	KEVIN MCALISTER
16.	Fluoride	F-	01/22/2007 14:10	01/26/2007 12:00	KEVIN MCALISTER
17.	Iron	Fe	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
18.	Lead	Pb	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
19.	Magnesium	Mg	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
20.	Manganese	Mn	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
21.	Mercury	Hg	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
22.	Nickel	Ni	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
23.	Selenium	Se	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
24.	Silver	Ag	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
25.	Thallium	Tl	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
26.	Tin	Sn	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER
27.	Zinc	Zn	01/22/2007 14:10	03/28/2007 15:06	KEVIN MCALISTER

8113 W. Sherman St. Tolleson, AZ 85353-4025 Tel: 800.972.1955 Fax: 623.936.9164

May 29, 2007

Mr. Gerald Thompson Environmental Assistant Alaskan Copper Works 3200 Sixth Avenue South Seattle, WA 98124

#### Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company

Jason Hensley Laboratory Manager

**Enclosures**